REMARKS

The Applicant respectfully requests further examination and reconsideration in view of the amendments above and the arguments set forth fully below. Claims 1, 4-15, 17-25, 28-39, 41-49, 52-63, 65-73, 76-87, and 89-96 were previously pending in this application. Within the Office Action, claims 1, 4-15, 17-25, 28-39, 41-49, 52-63, 65-73, 76-87, and 89-96 have been rejected. By the above amendments, claim 1, 15, 49, 63, 73, and 87 have been amended and claims 25, 28-39, and 41-48 have been canceled. Accordingly, claims 1, 4-15, 17-24, 49, 52-63, 65-73, 76-87, and 89-96 are currently pending.

Double Patenting

Within the Office Action, claims 1, 4-15, 17-25, 28-39, 41-49, 52-63, 65-73, 76-87, and 89-96 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-40 of co-pending Application No. 09/801,072. The Applicant is filing a terminal disclaimer herewith to obviate this double patenting rejection over Application No. 09/801,072.

Rejections under 35 U.S.C. §102(e)

Within the Office Action, claims 1, 4-15, 17-25, 28-39, 41-49, 52-63, 65-73, 76-87, and 89-96 have been rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 6,253,188 issued to Witek et al. (hereafter "Witek"). The Applicant respectfully traverses this rejection for the following reasons.

Witek teaches a system and method for providing classified ads over the Internet. Internet users can connect to a Newspaper web server and central Web application server to search for and obtain classified ads. Ad records are stored in ad database servers 20 for providing classified ad records on request to application servers 16. To search the ad records, the search process is divided into two principle parts. The first part includes a system entry and preselection sequence, and the second part includes a record selection sequence (Witek, col. 12, lines 10-13). More specifically, in the first part the user enters the system and specifies the category of classified ads to be searched. Thereafter, as the user navigates to the respective selected category, the user further specifies a subcategory for the particular category selected (Witek, col. 12, lines 27-37). The selected category and subcategory pair is identified by a category/subcategory ID 46. The second part of the search process includes entering a formal record selection query containing the specific parameters for the ad records the user wishes to

see. The specific parameters are entered as primary selection parameters 60 and as secondary selection parameters 62. In summary, the first part of the search process is limited to performing searches based on category, or in other words a hierarchical search (Witek, col. 13, lines 30-46). The second part of the search process is limited to performing searches based on entered parameters, in other words keyword search or parametric search.

Further, within the Office Action it is stated that Witek teaches a dichotomous key search. To support this assertion, Figure 3, element 70, and column 16, lines 27-50 are cited. The Applicant respectfully disagrees with this conclusion. Column 16, lines 27-50 of Witek refer to a mapped field 70 within the secondary selection parameters 62. Witek teaches that the mapped fields 70 are "yes-no" secondary features that provide details concerning the ad record subject matter. In particular, Witek teaches that the yes-no fields 70 provide up to 32 features which the user can simply check off in a selection menu (such as element 146 in Figure 10) to further describe the ad to be viewed. However, this is no different than a parametric search in which the parameters are limited to yes or no. Within the Office Action, it is stated that the present specification defines a "dichotomous key search" as the ability to instruct users through an answer and question dialog, often yes or no answers, and that Witek also gives the user the option of answering questions by checking the boxes in the selection menu. It is therefore concluded within the Office Action that these two search options are the same. The Applicant respectfully disagrees with the conclusion that the selection menu 146 including yes-no fields 70 of Witek is the same as a dichotomous key search as described in the present application.

It is well known in the art that a parametric search is a search performed that fits a number of simultaneous criteria, or parameters. Parametric searching allows people to find items of interest based on an individual item's parameters, or particular characteristics. Data is structured into categories and subcategories and associated with parameters that describe those categories. How do parametric search engines work? Typically, a knowledge base is developed with many searchable data types associated with an instance, or item of data. These data types likely include text, text arrays, numeric ranges, boolean values, and named lists for each unique data item. All of the above types are called "parameters" or attributes of the data item.

The definition of a parametric search, as defined within the present specification, is consistent with that which is well known in the art. Specifically, the present specification refers to customizable parametric search technology that allows users to precisely locate desired information by searching parametric data that is contained within each node of a directory tree structure (Specification, page 18, lines 1-3). Each node represents a category. The types of

parameters include, but are not limited to, <u>true-false</u>, selected list, range of values, and alphabetic list (Specification, page 27, lines 1-2).

As the definition of a parametric search is well known in the art, it is not necessary to define "parametric search" within the present claims.

It is well known in the art that a dichotomous key is a two-branched key where choosing between two characteristics continues through the key until identification is complete. There are many examples on the internet to support the well known nature of "a dichotomous key", following are just a few:

From Merriam-Webster Online Dictionary, "Dichotomous key - a key for the identification of organisms based on a series of choices between alternative characters."

From <u>www.mansfield.ohio-state.edu</u>, "Questions are arranged hierarchically where more general questions are asked first, with questions becoming more specific asked subsequently. Questions are dichotomous meaning that each have two possible answers, with each answer distinguishing the path to the next question."

From www.lucidcentral. com, "Dichotomous - meaning of the word 'two-branching'. Structure of the key is that each question acts as a tree branch that has smaller branches proceeding it."

From www.bioedonline.org, "Dichotomous key - pairs of contrasting descriptions."

The definition of a dichotomous key search, as defined within the present specification, is consistent with that which is well known in the art. Specifically, as presented in the response to the previous Office Action, the present specification refers to a dichotomous key search as "a binary key structure or two-node tree. This structure is used as a decision tree mechanism to instruct users in deciphering information given in an answer or question dialog, often a yes or no answer. Examples of this include diagnosing a medical disease, diagnosing a mechanical problem, and working a system such as classifying a biological species by physical attributes" (Specification, page 18, lines 6-10).

As the definition of a dichotomous key search is well known in the art, it is not necessary to define "dichotomous key search" within the present claims.

Witek teaches a yes-no field 70 (Figure 3) which is one of a secondary selection parameters 62. By the definition within Witek, the yes-no field 70 is a parameter. Specifically, the "yes-no" field is a "true-false" field, which is defined above as one type of parameter used in a conventional parametric search. As such, the yes-no field 70 of Witek is used to perform a parametric search.

The yes-no field 70 is a part of a record selection table 44, which is manifested to a user for data input via a selection parameter menu 140. Within the selection parameter menu 140 are a set of yes-no parameters 146, which correspond to the yes-no fields 70. By their vary definition, the yes-no parameters 146 are parameters, and as such, are used to perform a parametric search.

Within the Office Action, it is stated that the present specification discloses an example of a dichotomous key search being a yes no answer. However, as described above, this is only a partial definition of the dichotomous key search. A dichotomous key search, as part of the question answer format, can include a yes or no answer. However, the yes or no answer is in response to a single posed question, where the single question is the <u>only</u> question presented to the user. The answer to the single question leads to another, more specific, question related to the answer to the previous question. In contrast, the yes-no checkbox parameters 146 of Witek are a series of parameters which are all presented in parallel and are all answered in parallel. There is no subsequent question posed which is based on the previous yes or no selection of the checkbox 146. Witek teaches a simultaneous selection of multiple yes-no parameters, e.g. parallelism.

By definition, a dichotomous key search, at any decision step, provides a binary choice, thus the term di-chotomous. The check box form of Witek (parameters 146), are part of a larger record selection step, where a plurality of check boxes are presented to the user. In this manner, the user is not presented with two choices, the user is presented with a yes-no option for a multitude of check boxes. So although each check box is a yes or no, the entire record selection presentation (e.g. selection parameter menu 140) includes multiple, simultaneous yes-no decisions to be made. Multiple yes-no selections are a parametric search, not a single, binary choice.

By the above amendments, each of the independent claims is amended to clarify that the research system, and method of using thereof, includes a dichotomous key search. As discussed above, Witek does not teach a dichotomous key search.

The independent claim 1 is directed to a method of performing a research task within a searchable database. The method of claim 1 comprises the steps of utilizing a search module to correlate a search criteria to the searchable database for generating one or more matching items, wherein each matching item corresponds to a segment of the searchable database, further wherein the search module includes a keyword search, a hierarchical search, and a dichotomous key search, utilizing the search module to correlate a subsequent search criteria to one of the matching items for generating one or more subsequent matching items, wherein each subsequent matching item, and further wherein the subsequent search criteria is a selective one of the search criteria and a different search criteria, and repeating the step of utilizing the search module to correlate a subsequent search criteria until the research task is completed such that each utilization of the search module includes the availability of the keyword search, the hierarchical search, and the dichotomous key search. As discussed above, Witek does not teach a search module that includes a dichotomous key search. For at least these reasons the independent claim 1 is allowable over the teachings of Witek.

Claims 4-14 depend on the independent claim 1. As described above, the independent claim 1 is allowable over the teachings of Witek. Accordingly, claims 4-14 are all also allowable as being dependent on an allowable base claim.

The independent claim 15 is directed to research system for performing a research task within a searchable database. The research system of claim 15 comprises a research server configured to utilize a search module, to correlate a search criteria to the searchable database coupled to the research server for generating one or more matching items, wherein each matching item corresponds to a segment of the searchable database, further wherein the search module includes a keyword search, a hierarchical search, and a dichotomous key search, to utilize a the search module to correlate a subsequent search criteria to one of the matching items for generating one or more subsequent matching items, wherein each subsequent matching item is a sub-segment of the matching item used to generate the subsequent matching item, further wherein the subsequent search criteria is a selective one of the search criteria and a different search criteria, and to repeat the utilization of the search module to correlate a subsequent search criteria to one of the matching items for generating one or more subsequent matching items, wherein each subsequent matching items for generating one or more subsequent matching items, wherein each subsequent matching item is a sub-segment of the matching item used to generate the subsequent matching item, further wherein the subsequent search criteria is a selective one of the search criteria and a different search criteria, until the research task is completed, and further

wherein each utilization of the search module includes the availability of the keyword search, the hierarchical search, and the dichotomous key search. As discussed above, Witek does not teach a search module that includes a dichotomous key search. For at least these reasons, the independent claim 15 is allowable over the teachings of Witek.

Claims 17-24 depend on the independent claim 15. As described above, the independent claim 15 is allowable over the teachings of Witek. Accordingly, claims 17-24 are all also allowable as being dependent on an allowable base claim.

The independent claim 49 is directed to method of performing a research task within a searchable database. The method of claim 49 comprises the steps of utilizing a search module to correlate a search criteria to the searchable database for generating one or more matching items, wherein each matching item corresponds to a segment of the searchable database, further wherein the search module includes a keyword search, a dichotomous key search, and a parametric search, utilizing the search module to correlate a subsequent search criteria to one of the matching items for generating one or more subsequent matching items, wherein each subsequent matching item is a sub-segment of the matching item used to generate the subsequent matching item, and further wherein the subsequent search criteria is a selective one of the search criteria and a different search criteria, and repeating the step of utilizing the search module to correlate a subsequent search criteria until the research task is completed such that each utilization of the search module includes the availability of the keyword search, the dichotomous key search, and the parametric search. As discussed above, Witek does not teach a search module that includes a dichotomous key search. For at least these reasons, the independent claim 49 is allowable over the teachings of Witek.

Claims 52-62 depend on the independent claim 49. As described above, the independent claim 49 is allowable over the teachings of Witek. Accordingly, claims 52-62 are all also allowable as being dependent on an allowable base claim.

The independent claim 63 is directed to a research system for performing a research task within a searchable database. The research system of claim 63 comprises a research server configured to utilize a search module to correlate a search criteria to the searchable database coupled to the research server for generating one or more matching items, wherein each matching item corresponds to a segment of the searchable database, further wherein the search module includes a keyword search, a dichotomous key search, and a parametric search, to utilize the search module to correlate a subsequent search criteria to one of the matching items for generating one or more subsequent matching items, wherein each subsequent matching item is a

sub-segment of the matching item used to generate the subsequent matching item, further wherein the subsequent search criteria is a selective one of the search criteria and a different search criteria, and to repeat the utilization of the search module to correlate a subsequent search criteria to one of the matching items for generating one or more subsequent matching items, wherein each subsequent matching item is a sub-segment of the matching item used to generate the subsequent matching item, and further wherein the subsequent search criteria is a selective one of the search criteria and a different search criteria, until the research task is completed, and further wherein each utilization of the search module includes the availability of the keyword search, the dichotomous key search, and the parametric search. As discussed above, Witek does not teach a search module that includes a dichotomous key search. For at least these reasons, the independent claim 63 is allowable over the teachings of Witek.

Claims 65-72 depend on the independent claim 63. As described above, the independent claim 63 is allowable over the teachings of Witek. Accordingly, claims 65-72 are all also allowable as being dependent on an allowable base claim.

The independent claim 73 is directed to a method of performing a research task within a searchable database. The method of claim 73 comprises the steps of utilizing a search module to correlate a search criteria to the searchable database for generating one or more matching items, wherein each matching item corresponds to a segment of the searchable database, further wherein the search module includes a hierarchical search, a dichotomous key search, and a parametric search, utilizing the search module to correlate a subsequent search criteria to one of the matching items for generating one or more subsequent matching items, wherein each subsequent matching item is a sub-segment of the matching item used to generate the subsequent matching item, and further wherein the subsequent search criteria is a selective one of the search criteria and a different search criteria, and repeating the step of utilizing the search module to correlate a subsequent search criteria until the research task is completed such that each utilization of the search module includes the availability of the hierarchical search, the dichotomous key search, and the parametric search. As discussed above, Witek does not teach a search module that includes a dichotomous key search. For at least these reasons the independent claim 73 is allowable over the teachings of Witek.

Claims 76-86 depend on the independent claim 73. As described above, the independent claim 73 is allowable over the teachings of Witek. Accordingly, claims 76-86 are all also allowable as being dependent on an allowable base claim.

The independent claim 87 is directed to a research system for performing a research task within a searchable database. The research system of claim 87 comprises a research server configured to utilize a search module to correlate a search criteria to the searchable database coupled to the research server for generating one or more matching items, wherein each matching item corresponds to a segment of the searchable database, further wherein the search module includes a hierarchical search, a dichotomous key search, and a parametric search, to utilize the search module to correlate a subsequent search criteria to one of the matching items for generating one or more subsequent matching items, wherein each subsequent matching item is a sub-segment of the matching item used to generate the subsequent matching item, further wherein the subsequent search criteria is a selective one of the search criteria and a different search criteria, and to repeat the utilization of the search module to correlate a subsequent search criteria to one of the matching items for generating one or more subsequent matching items, wherein each subsequent matching item is a sub-segment of the matching item used to generate the subsequent matching item, and further wherein the subsequent search criteria is a selective one of the search criteria and a different search criteria, until the research task is completed, and further wherein each utilization of the search module includes the availability of the hierarchical search, the dichotomous key search, and the parametric search. As discussed above, Witek does not teach a search module that includes a dichotomous key search. For at least these reasons the independent claim 87 is allowable over the teachings of Witek.

Claims 89-96 depend on the independent claim 87. As described above, the independent claim 87 is allowable over the teachings of Witek. Accordingly, claims 89-96 are all also allowable as being dependent on an allowable base claim.

For the reasons given above, Applicant respectfully submits that the claims are now in a condition for allowance, and allowance at an early date would be appreciated. Should the Examiner have any questions or comments, she is encouraged to call the undersigned attorney at (408) 530-9700.

Respectfully submitted,

HAVERSTOCK & OWENS LLP

Date: December 14, 2004

By:

Jonathan O. Owens Reg. No. 37,902 Attorney for Applicant